19. APPROVED BY AND DATE

OFFICE DEPUTY DIRECTOR DDC1

FORM 2338

25X1A

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GROUP 1 Escluded from outsimplic downgrading and

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R & D CATALOG FORM Continued ...

NP-IO-12

14. already carried out by the contractor on an improved design magnifier. Because of their failure to meet all of the objective 25X1A on the initial effort, proposes to provide 25X1A toward the total cost of

18. comfortably used. The present limit for a reasonably comfortable magnifier is approximately 13X.

It is apparent that no fixed magnification instrument can provide the proper compromise between optimum magnification and optimum field of view; consequently, a continuously variable (Zoom) tube magnifier is highly desirable.

Following the somewhat less than successful development of a prototype zoom tube magnifier under this contract further design studies by indicate that they can now meet the following parameters:

- 1. Magnification range of 8x to 18x
- 2. Weight under 10 ounces
- 3. Maximum height of 106mm
- 4. Field of view: 16.3mm at 8x 12.0mm at 13x 5.5mm at 18x
- 5. Axial resolution: 218 1/mm at 8x 400 1/mm at 18x
- 6. Distortion: -5.3% at 8x -4.4% at 13x +0.2% at 18x
- 7. Working distance of 12.3mm

also indicates that the clear plastic sleeve at the base of the instrument will accept standard reticles in a special mount. A removable chain ring will be provided on the instrument body to enable it to be suspended from the neck if desired.

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